

Project Baseline Summary Report

Data Source: **EM CDB**

Operations/Field Office: **Nevada**

Site Summary Level: **Nevada Operations Office**

Project **NV240 / Off-sites**

Report Number: **GEN-01b**

Print Date: **3/9/2000**

HQ ID: **0227**

General Project Information

Project Description Narratives

Purpose, Scope, and Technical Approach:

The Offsites Project includes sites contaminated as the result of historic nuclear testing activities conducted at eight locations in five states: Alaska, Colorado, Mississippi, Nevada, and New Mexico. Project activities are divided into two components for each site: contaminated surface sites and underground contamination. Each component will be addressed independently in accordance with plans negotiated with the applicable state. The corrective action strategy for all sites is based on the strategy negotiated within the Federal Facility Agreement and Consent Order with the State of Nevada, with revisions to this basic technical approach incorporated into final plans to address site-specific conditions, state technical requirements, and stakeholder interests. The strategy encompasses completion of assessment and corrective actions for surface sites, and evaluation of historical data to establish the subsurface conditions at the site. The evaluation of the underground environment will assist in determining whether additional information is needed and whether additional groundwater monitoring wells are needed. The subsurface will be modeled to determine fate and transport of potential contaminants and to establish a risk-based compliance boundary. Based on modeling results, if necessary, a monitoring well network will be designed, installed, and maintained in support of a long-term hydrologic monitoring program. Monitoring is assumed in perpetuity although costs are established for 100 years.

Surface corrective actions will entail excavation and disposal of soils (drilling mud pits contaminated with petroleum products and metals) and of waste disposal pits; however, closure in place may be necessary at CNTA due to large volumes of waste. Derived wastes will be properly treated and disposed. Wastes will be disposed on- or off-site dependent upon the type and quantity of contamination and by the effectiveness of available corrective action technologies.

In that no proven and cost-effective technologies exist for the removal of radioactive contamination from groundwater at these depths, the remedial strategy will be to determine the groundwater flow direction and velocity, and to model the potential for subsurface contaminant migration from the source cavities. This information will be used to assess potential risks to human health and the environment, and where necessary, restrict access to radiologically contaminated groundwater.

Tritium is considered to be the primary contaminant of concern over the next 100 years, in that tritium is one of the most mobile radiologic contaminants and is found in abundance. Other radionuclides will be evaluated, provided tritium migration indicates the need for other radionuclides to be included in the source evaluation. In order to maintain a cost-effective and accurate monitoring program, the most current equipment and advanced technological methods will be needed. Technology needs have been identified for down-hole tritium monitoring, deep well sampling, and improved groundwater modeling. Each of these technology needs provides an opportunity or potential to enhance performance in the subsurface technical approach.

Project Status in FY 2006:

By the end of FY 2006, all currently scheduled activities for Alaska, Mississippi, and Nevada will be completed, and Nevada will be in the middle of Proof of Concept validation activities. Long-term monitoring will commence for closed sites.

Post-2006 Project Scope:

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Scheduled activities for Colorado will be completed in 2007 and for New Mexico in 2011. Proof of concept monitoring will be complete in 2009 for Nevada sites. Post 2006 activities for all sites will include sampling, reporting, and well refurbishment/maintenance throughout the duration of postclosure activities. Long-term monitoring will continue in perpetuity although costs are identified through FY 2069 only.

Project End State

For all Off Site locations, the subsurface will be closed in place; contaminant fate and transport modeling completed; and a long-term environmental monitoring program established. Monitoring at each Off Site location will be conducted annually with the exception of Amchitka. Due to logistical difficulties, Amchitka will be monitored at less frequent intervals than the other Off Site locations. The frequency will be determined based upon the results or groundwater modeling, risk assessments, and consultation with the primary stakeholders.

The anticipated End State for Amchitka Island will allow for future surface use at the site with an NRC designation of "No Radiological Restrictions." A subsurface intrusion restricted area is established and will be maintained at this site. It will be modified based on where groundwater modeling and risk assessment indicate that radioactive groundwater contamination may occur. Groundwater modeling, surface characterization, and an ecological risk assessment will be completed. Surface and subsurface risk assessments will be completed for human health also. Based upon the results of the model and risk assessments and consultations with the Alaska Department of Environmental Conservation, Aleutian/Pribilof Islands Association, and the USFWS, decisions will be reached regarding closures of contaminated sites. These sites are primarily mud pits and two primary options exist for closure. "Closure in place" would leave the drilling muds in their present location, place an engineered cover over them, and increase the strength of the pit walls where necessary. "Clean closure" would entail removal of the drilling muds and disposal of them in another location on or off the island. Where closures are necessary, and adequate stabilization of pit contents is obtainable, closures in place are the likely option. There will be no surface use restrictions other than on the engineered portion of the closures where necessary to prevent surface disturbing activities from damaging the covers. Environmental monitoring of surface and subsurface areas, if necessary, will be conducted at longer term intervals than at other more accessible sites due to the logistical difficulties of working at Amchitka. Surface monitoring will be implemented per agreement reached with the Alaska Department of Environmental Conservation, Aleutian/Pribilof Islands Association, and the USFWS. Subsurface monitoring will be based on the results of groundwater modeling, risk assessments, model verification, and consultation with the Alaska Department of Environmental Conservation, Aleutian/Pribilof Islands Association, and the USFWS. It is anticipated that Amchitka will continue to be managed for the foreseeable future by the USFWS in a manner similar to its present management.

For the CNTA, the anticipated End State will allow for future surface use at the site with a NRC designation of "No Radiological Restrictions." Agreements will be enacted with the U.S. Department of the Interior (DOI), under the land withdrawal agreement, for the transfer of surface area land. The agreements will be completed prior to the completion of the closure activities and will be predicated on the final agreed upon surface closure criteria and future use determinations. The goal is to relinquish the surface area land to the appropriate land management agency.

For Gasbuggy, the anticipated End State will allow for future surface use at the site with a NRC designation of "No Radiological Restrictions." Agreements will be enacted with the DOI, under the land withdrawal agreement, for the transfer of surface area land. The agreements will be completed prior to the completion of the closure activities and will be predicated on the final agreed upon surface closure criteria and future use determinations. The goal is to relinquish the surface area land to the U.S. Bureau of Land Management (BLM).

For Gnome-Coach the anticipated End State will allow for future surface use at the site with a NRC designation of "No Radiological Restrictions."

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Agreements will be enacted with the DOI, under the land withdrawal agreement, for the transfer of surface area land. The agreements will be completed prior to the completion of the closure activities and will be predicated on the final agreed upon surface closure criteria and future use determinations. The goal is to relinquish the surface area land to the BLM.

The anticipated End State for the Rio Blanco Site will allow for future use at the site with an NRC designation of "No Radiological Restrictions." A subsurface intrusion restricted area is established and will be maintained at this site. It will be modified based on where groundwater modeling and risk assessment indicate that radioactive groundwater contamination may occur. If indicated by the groundwater model and the risk assessments, a long-term hydrologic monitoring program will be established and implemented. An agreement will be reached with the BLM to relinquish the withdrawal. The agreement will be completed prior to the completion of the closure activities and will be predicated on the final agreed upon surface closure criteria and future use determinations. Once corrective action is completed (closed in place or excavated and disposed), it is anticipated that no restrictions on use of surface areas will be required with the exception that it may be necessary in some cases to restrict the engineered portion of the closures to maintain closure integrity. Except as previously noted, the land managing agency should be able to allow the same uses which they would allow on similar nearby lands.

The anticipated End State for the Rulison Site will allow for future use at the site with an NRC designation of "No Radiological Restrictions." A subsurface intrusion restricted area is established and will be maintained at this site. It will be modified if natural gas modeling and risk assessment indicate that radioactive gas contamination and migration may occur. If indicated by the gas model and the risk assessments, a long-term natural gas reservoir monitoring program will be established and implemented. Private lands at the Rulison site would have no restrictions on surface uses.

For Project Shoal, the anticipated End State will allow for future surface use at the site with an NRC designation of "No Radiological Restrictions." Agreements will be enacted with the DOI, and the DOD under the land withdrawal agreement, and/or State of Nevada for the transfer of surface area land. The agreements will be completed prior to the completion of the closure activities and will be predicated on the final agreed upon surface closure criteria and future use determinations. The goal is to relinquish the surface area land to the appropriate land management agency.

For Salmon Site, the anticipated End State will allow for future surface use at the site with a NRC designation of "No Radiological Restrictions." Agreements will be enacted with the State of Mississippi for the transfer of surface area land. The agreements will be completed prior to the completion of the closure activities and will be predicated on the final agreed upon surface closure criteria and future use determinations. The goal is to relinquish the surface area land to the State of Mississippi.

The Project Chariot Site is part of the USFWS Alaska Maritime National Wildlife Refuge. This site has been remediated by DOE and clean-closed with the approval of the Alaska Department of Environmental Conservation and concurrence from the USFWS. DOE has no further responsibilities at this site.

Cost Baseline Comments:

The Offsites Project baseline costs are based on bottom-up, activity based work packages comprised of templates. The templates, which accommodate the various tasks in each work package, were formulated from a considerable modeling effort. Cost data input to these models was derived from preliminary site assessments, historical facility and operations data, bottoms-up estimates, commercially available databases, engineering judgement, and bids from external vendors. Projected costs are escalated in accordance with Paths to Closure guidance. Contingency for the Offsites Project is

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based on Monte Carlo risk evaluation and is scope-based with the scope reflected in the baseline, subject to numerous fiscal, regulatory, and land-use uncertainties. Current regulatory requirements thus far do not allow for further grouping of activities to realize reduced costs due to economies of scale. The Offsites Project has yet to be fully characterized and is in a conceptual phase of development.

Safety & Health Hazards:

The hazards associated with the project are those industrial and construction hazards common to the environmental assessment and remediation industry with special emphasis upon those sites with a radiological contamination component. The use of heavy equipment is required for general construction. Projects may include activities such as, drilling wells and the associated construction of well pads and sumps, sampling of water, soil and natural gas, road building, sonic, rotary and direct push drilling and the transport of contaminated soils and other materials from sites. Workers can be expected to encounter the normal occupational/physical hazards associated with field work involving use of electrical generators and field wiring, lifting, slip, trip and fall, confined spaces, and excavations. At some offsite locations, the hazards include working in a desert environment, and the associated biological hazards and physical agents such as venomous reptiles and insects, rodents potentially infected with the Hantavirus, wild animals, heat stress and heat related injury, cold stress, and adverse weather conditions including high winds and flash floods. At other offsite locations, may also include site-specific hazards such as, poisonous plants, tornados, and biting and stinging insects, which may carry Lyme disease and plague. Radiological hazards are those associated with the on-site contaminants and may include tritium, depleted uranium, plutonium, and other radionuclides. Chemical hazards include those associated with both the on-site contaminants and the use of operational chemicals such as gasoline, diesel, and sampling preservatives. All activities are conducted to ensure compliance with guidance and direction provided by DOE and applicable OSHA requirements for hazardous waste operations. This includes the information and procedures provided in the overall Nevada Environmental Restoration Project Health and Safety Plan (HASP) and in the site-specific health and safety plans (SSHASPs) which are unique to each field project. The SSHASP is prepared, reviewed and approved by cognizant personnel prior to the commencement of hazardous waste operations and field activities. The SSHASPs contain an integrated safety management approach to the assessment of the field-work hazards and the appropriate control and mitigation procedures. Such information includes a health and safety (H&S) risk or hazard analysis for each site task and operation, identification of key project management and H&S personnel, site exposure monitoring requirements, personal protective equipment and procedures, medical surveillance requirements, and emergency response guidance. Specialized guidance on specific hazards such as confined spaces, drill-rig safety, excavations, and toxic/carcinogenic materials are included when appropriate. The procedures and guidance outlined above are applicable throughout the life cycle of the project.

Safety & Health Work Performance:

The resources necessary to accomplish the work safely are provided through the PBS, the site Health and Safety (H&S) Program requirements, and through the resources allocated to the site's integrated safety management system in the following areas: radiological safety, emergency management, fire safety, industrial hygiene and safety, occupational medicine, security, performance oversight, and standards management. To ensure readiness prior to the start of work, Operation Readiness Reviews, hazard assessment reviews, and radiological ALARA reviews are conducted as required. The measures used to monitor the adequacy of health and safety controls include several integrated approaches. Internal and external program management reviews and audits are conducted to assess overall effectiveness and compliance. Ongoing on-site surveillance is conducted by both project management and H&S professionals to confirm work-site controls and procedures are being followed. Occupational exposure monitoring is conducted at the work sites to verify the effectiveness of contamination controls. If unforeseen H&S hazards arise that are not already covered by contingency planning, work activities are suspended until the hazard is properly addressed by management and H&S specialists. Stop Work Orders are issued if there is an imminent hazard. Formalized change control procedures are used to manage and to document major project changes.

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H&S professionals ensure that work is planned in accordance with 29 CFR 1910, 29 CFR 1926, 40 CFR, 49 CFR, and 10 CFR requirements. Resources and personnel that may be necessary include industrial hygienists, health physicists, safety professionals, waste management specialists, quality assurance programs, on-site exposure monitoring (both technicians and instruments), internal and external dosimetry programs, medical surveillance and medical emergency care programs, personal protective equipment, and engineering controls.

PBS Comments:

Current land ownership issues exist at some of the sites. Specifically, ownership of the Salmon Site in Mississippi, recently purchased (FY 1994) from a private land owner, will be transferred to the State of Mississippi following completion of remedial activities. Portions of the Rulison Site (Colorado) are owned by a private land owner, and Amchitka Island, Alaska is part of the Aleutian Islands National Wildlife Refuge (managed by the U.S. Fish and Wildlife Service). The Navy is proposing to include Shoal Site as part of an expanded land withdrawal in a current draft EIS.

Baseline Validation Narrative:

The Nevada Environmental Restoration Project Baseline, which comprises the individual Project Summary Baselines for the DOE/NV environmental restoration program, has been formally reviewed by both the U.S. Army Corps of Engineers (USACE) and the DOE/HQ-sponsored Core Technical Group, and informally reviewed by the Inspector General's (IG) Office. Additionally, all cost estimates supporting the overall and individual project baselines are reviewed annually by Federal cost professionals and an independent contractor providing cost estimating support to the DOE/NV Environmental Management (EM) Program. In Fiscal Year 1997, the USACE was tasked by DOE/HQ to provide an independent assessment of site baselines in support of the remediation of contamination at DOE sites around the country. Phase I of this effort for DOE/NV was conducted in December 1996. The EM Task Force, comprised of both USACE and contractor technical experts, assessed DOE/NV Environmental Restoration Project work scopes, schedules, and cost estimates. The team concluded that scopes of work, schedules, and cost estimates for the DOE/NV EM Program were well-defined and usually supported by reliable and traceable data containing a combination of activity-based and level-of-effort costs. In July 1997, DOE/NV requested an independent Critical Analysis Review of the site's revised Nevada Environmental Restoration Project baseline by the DOE/HQ Core Technical Group. The team reviewed elements of scope, schedule, costs, assumptions, and an integrated execution strategy as well as management approaches and strategies. The team concluded that the creation of an environmental restoration cost-estimating system improved project and work task scheduling efforts, and further integrated planning, cost accounting, project controls, and management systems. The team further concluded the baseline document provides credible scoping information for DOE/NV environmental restoration activities even though the majority of these activities have not yet been characterized and are in a conceptual phase of development. Other conclusions were that the "template" approach used in the near real-time electronic baseline can be easily modified to reflect more accurate project data as it becomes available. It can also be used to quickly reflect the consequences of future funding scenarios. The document reflects a high degree of stakeholder and regulator input in terms of project prioritization and presents a credible approach to project completion in accordance with 2006 Plan goals. However, the scope in the baseline is subject to numerous fiscal, regulatory, and land-use uncertainties which could impact the project completion date. Finally, the Core Technical Group concluded that these future uncertainties are well beyond the influence of the parties responsible for project execution. The Nevada Environmental Restoration Project has completed mitigation of findings and recommended corrective actions from the USACE and Core Technical Group reviews. The informal review of the baseline by the IG resulted in no findings.

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General PBS Information

Project Validated? Yes Date Validated: 7/1/1997
 Has Headquarters reviewed and approved project? No
 Date Project was Added: 12/1/1997
 Baseline Submission Date: 7/8/1999
 FEDPLAN Project? Yes

Drivers:	CERCLA	RCRA	DNFSB	AEA	UMTRCA	State	DOE Orders	Other
	Y	Y	N	Y	N	Y	Y	N

Project Identification Information

DOE Project Manager: Michael Giblin
 DOE Project Manager Phone Number: 702-295-2011
 DOE Project Manager Fax Number: 702-295-1113
 DOE Project Manager e-mail address: giblin@nv.doe.gov
 Is this a High Visibility Project (Y/N):

Planning Section

Baseline Costs (in thousands of dollars)

	1997-2006 Total	2007-2070 Total	1997-2070 Total	1997	Actual 1997	1998	Actual 1998	1999	2000	2001	2002	2003	2004	2005	2006
PBS Baseline (current year dollars)	59,840	180,740	240,580	9,947	9,947	3,935	3,935	7,036	8,634	6,856	3,736	3,474	7,559	3,286	5,377
PBS Baseline (constant 1999 dollars)	56,810	76,848	133,658	9,947	9,947	3,935	3,935	7,036	8,407	6,538	3,490	3,178	6,773	2,884	4,622
PBS EM Baseline (current year dollars)	59,840	180,740	240,580	9,947	9,947	3,935	3,935	7,036	8,634	6,856	3,736	3,474	7,559	3,286	5,377

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Baseline Costs (in thousands of dollars)

	1997-2006 Total	2007-2070 Total	1997-2070 Total	1997	Actual 1997	1998	Actual 1998	1999	2000	2001	2002	2003	2004	2005	2006	
PBS EM Baseline (constant 1999 dollars)	56,810	76,848	133,658	9,947	9,947	3,935	3,935	7,036	8,407	6,538	3,490	3,178	6,773	2,884	4,622	
	2007	2008	2009	2010	2011- 2015	2016- 2020	2021- 2025	2026- 2030	2031- 2035	2036- 2040	2041- 2045	2046- 2050	2051- 2055	2056- 2060	2061- 2065	2066- 2070
PBS Baseline (current year dollars)	4,764	4,860	5,744	1,503	3,091	6,844	7,591	13,015	12,351	13,073	11,509	12,766	21,882	20,769	21,979	18,999
PBS Baseline (constant 1999 dollars)	4,011	4,007	4,639	1,189	2,298	4,587	4,585	7,085	6,060	5,782	4,587	4,586	7,085	6,061	5,782	4,504
PBS EM Baseline (current year dollars)	4,764	4,860	5,744	1,503	3,091	6,844	7,591	13,015	12,351	13,073	11,509	12,766	21,882	20,769	21,979	18,999
PBS EM Baseline (constant 1999 dollars)	4,011	4,007	4,639	1,189	2,298	4,587	4,585	7,085	6,060	5,782	4,587	4,586	7,085	6,061	5,782	4,504

Baseline Escalation Rates

1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
0.00%	0.00%	0.00%	2.70%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%
2010	2011-2015	2016-2020	2021-2025	2026-2030	2031-2035	2036-2040	2041-2045	2046-2050	2051-2055	2056-2060	2061-2065	2066-2070
2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%

Project Reconciliation

Project Completion Date Changes:

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Project Reconciliation

Previously Projected End Date of Project: 7/1/2006

Current Projected End Date of Project: 9/30/2070

Explanation of Project Completion Date Difference (if applicable):

Project Cost Estimates (in thousands of dollars)

Previously Estimated Lifecycle Cost (1997 - 2070, 1998 Dollars):	90,270	Actual 1997 Cost:	9,947	Actual 1998 Cost:	3,935
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Previously Estimated Lifecycle Cost of Project (1999 - 2070, 1998 Dollars):	76,388	Inflation Adjustment (2.7% to convert 1998 to 1999 dollars):	2,062
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Previously Estimated Lifecycle Cost (1999 - 2070, 1999 Dollars):	78,450
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Project Cost Changes

Cost Adjustments Reconciliation Narratives

Cost Change Due to Scope Deletions (-):

Cost Reductions Due to Efficiencies (-):

Cost Associated with New Scope (+):

Cost Growth Associated with Scope Previously Reported (+): Increase in total life-cycle costs are a result of refinement of work scopes/planned monitoring.

Cost Reductions Due to Science & Technology Efficiencies (-):

Subtotal:	78,450
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Additional Amount to Reconcile (+):	41,326
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Current Estimated Lifecycle Cost (1999 - 2070, 1999 Dollars):	119,776
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Milestones

Milestone/Activity	Field Milestone Code	Original Date	Baseline Date	Legal Date	Forecast Date	Actual Date	EA	DNFSB	Mgmt. Commit.	Key Decision	Intersite
Complete CNTA CADD (CAU 417)	OS-001		10/30/1998	10/30/1998	10/30/1998	10/29/1998					
Complete Project Shoal CADD Addedum (CAU 447)	OS-003		9/10/1999	9/10/1999	9/10/1999						

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Milestone/Activity	Field Milestone Code	Original Date	Baseline Date	Legal Date	Forecast Date	Actual Date	EA	DNFSB	Mgmt. Commit.	Key Decision	Intersite
Offsite Project Mission Completion			1/18/2011								
Project Start			6/30/1997								
Project End			9/30/2070								

Milestones - Part II

Milestone/Activity	Field Milestone Code	Critical Decision	Critical Closure Path	Project Start	Project End	Mission Complete	Tech Risk	Work Scope Risk	Intersite Risk	Cancelled	Milestone Description
Complete CNTA CADD (CAU 417)	OS-001										Complete assessment.
Complete Project Shoal CADD Addedum (CAU 447)	OS-003							2			Complete assessment.
Offsite Project Mission Completion						Y					
Project Start				Y							
Project End					Y						

Performance Measure Metrics

Category/Subcategory	Units	1997-2006 Total	2007-2070 Total	1997-2070 Total	Actual Pre-1997	Planned 1997	Actual 1997	Planned 1998	Planned 1999	Planned 2000	Planned 2001	Planned 2002	Planned 2003	Planned 2004
RS														
Assess.	NR	15.00	17.00	32.00			1.00			6.00		2.00	3.00	1.00
RS														
Cleanup	NR	46.00	25.00	71.00				2.00			34.00	9.00		
Rem. Waste														
Disposed	M3	920.00	0.00	920.00							3.00	917.00		

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Category/Subcategory				Units	Planned 2004	Planned 2005	Planned 2006	Planned 2007	Planned 2008	Planned 2009	Planned 2010	Planned 2011 - 2015	Planned 2016 - 2020	Planned 2021 - 2025	Planned 2026 - 2030	Planned 2031 - 2035
RS																
Assess.				NR	1.00	3.00			15.00	1.00	1.00					
RS																
Cleanup				NR		1.00		3.00	2.00	3.00	16.00	1.00				
Rem. Waste																
Disposed				M3												
Category/Subcategory				Units	Planned 2036 - 2040	Planned 2041 - 2045	Planned 2046 - 2050	Planned 2051 - 2055	Planned 2056 - 2060	Planned 2061 - 2035	Planned 2066 - 2070	Exceptions	Lifecycle Total			
RS																
Assess.				NR								7.00	74.00			
RS																
Cleanup				NR								1.00	74.00			
Rem. Waste																
Disposed				M3									920.00			
Release Sites																
Site Code	RSF ID	Change Flag	Description	Class/Subclass Name	Planned Assess. Year	Forecast Assess. Year	Actual Assess. Date	Planned Comp. Year	Forecast Comp. Year	Actual Comp. Date	Acc. Year	No Action	Comp. Status	RAD		
AINP	0001		59-57-001 \ Long Shot Event Cavity	Underground Test Area/Underground Test Areas				2002	2002			N		Y		
AINP	0002		59-57-003 \ Cannikin Event Cavity	Underground Test Area/Underground Test Areas		1999		2002	2002			N		Y		
AINP	0003		59-57-002 \ Milrow Event Cavity	Underground Test Area/Underground Test Areas				2002	2002			N		U		

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Release Sites

Site Code	RSF ID	Change Flag	Description	Class/Subclass Name	Planned Assess. Year	Forecast Assess. Year	Actual Assess. Date	Planned Comp. Year	Forecast Comp. Year	Actual Comp. Date	Acc. Year	No Action	Comp. Status	RAD
CNTS	0001		58-09-02 \ Mudpit	Liquid Surface Impoundments/Holding Ponds		1999	10/28/1998	2001	2001			N		U
CNTS	0002		58-09-01 \ Mudpits	Liquid Surface Impoundments/Holding Ponds		1999	10/28/1998	2001	2001			N		U
CNTS	0003		58-19-01 \ Trash Dump(s)	Above Ground Material / Waste/Debris Piles		1999	10/28/1998	2001	2001			N		U
CNTS	0004		58-09-03 \ Mudpit	Liquid Surface Impoundments/Holding Ponds		1999	10/28/1998	2001	2001			N		U
CNTS	0005		58-30-01 \ HTH-1 Well	Waste/Wells (injection, monitoring, etc.)	2003	1999		2009	2009			N		U
CNTS	0006		58-30-02 \ HTH-2 Well	Waste/Wells (injection, monitoring, etc.)	2003	1999		2009	2009			N		U
CNTS	0007		58-09-04 \ Mudpit	Liquid Surface Impoundments/Holding Ponds		1999	10/28/1998	2001	2001			N		U
CNTS	0008		58-09-05 \ Mudpit	Liquid Surface Impoundments/Holding Ponds		1999	10/28/1998	2001	2001			N		U
CNTS	0009		58-57-001 \ Event Cavity	Underground Test Area/Underground Test Areas	2003	1999		2009	2009			N		Y
CNTS	0010		58-09-06 \ Mudpit	Liquid Surface Impoundments/Holding Ponds		1999	10/28/1998	2001	2001			N		U
CNTS	0011		58-07-01 \ Decon Facility Pit	/		1999	10/28/1998	2001	2001			N		

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CNTS	0012		58-10-01 \ Shaker Pad Area	/		1999	10/28/1998	2001	2001			N		
CNTS	0013		58-10-02 \ Shaker Pad Area	/		1999	10/28/1998	2001	2001			N		
CNTS	0014		58-35-01 \ Burn Area	/		1999	10/28/1998	2001	2001			N		
CNTS	0015		58-44-01 \ Grout Piles (2)	/		1999	10/28/1998	2001	2001			N		
CNTS	0016		58-44-02 \ Grout Piles (2)	/		1999	10/28/1998	2001	2001			N		
CNTS	0017		58-44-03 \ Drill Mud Spill	/		1999	10/28/1998	2001	2001			N		
CNTS	0019		58-98-01 \ Waste Pile	/		1999	10/28/1998	2001	2001			N		
CNTS	0020		58-98-02 \ Waste Pile	/		1999	10/28/1998	2001	2001			N		
CNTS	0021		58-98-03 \ Waste Pile	/		1999	10/28/1998	2001	2001			N		
CNTS	0022		58-98-04 \ Waste Pile	/		1999	10/28/1998	2001	2001			N		
CNTS	0023		58-99-01 \ Protruding Pipes	/		1999	10/28/1998	2001	2001			N		
CNTS	3018		58-05-01	/		1999	10/28/1998	2001	2001			N		
CNTS	3019		58-05-02	/		1999	10/28/1998	2001	2001			N		
CNTS	3020		58-05-03	/		1999	10/28/1998	2001	2001			N		

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CNTS	3021		58-05-04	/		1999	10/28/1998	2001	2001			N		
CNTS	3022		58-05-05	/		1999	10/28/1998	2001	2001			N		
CNTS	3023		58-05-06	/		1999	10/28/1998	2001	2001			N		
CNTS	3024		58-10-03	/		1999	10/28/1998	2001	2001			N		
CNTS	3025		58-10-04	/		1999	10/28/1998	2001	2001			N		
CNTS	3026		58-10-05	/		1999	10/28/1998	2001	2001			N		
CNTS	3027		58-10-06	/		1999	10/28/1998	2001	2001			N		
CNTS	3028		58-25-01	/		1999	10/28/1998	2001	2001			N		
CNTS	3029		58-35-02	/		1999	10/28/1998	2001	2001			N		
CNTS	3030		58-44-04	/		1999	10/28/1998	2001	2001			N		
CNTS	3031		58-44-05	/		1999	10/28/1998	2001	2001			N		
CNTS	3032		58-44-06	/		1999	10/28/1998	2001	2001			N		
CNTS	3033		58-44-07	/								N		
PGTS	0001		55-23-01 \ Soil Contamination	Dispersed Surface Contamination/Above Ground Tests	2008	2008		2010	2010			N		Y

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PGTS	0002		55-57-001 \ Gnome Event Cavity	Underground Test Area/Underground Test Areas	2009	2009		2010	2010			N		Y
PRBS	0001		None \ Rio Blanco Event Cavity	Underground Test Area/Underground Test Areas	2005	2005		2007	2007			N		Y
PRBS	0002		None \ Rio Blanco Flare Stack Area	Waste/Miscellaneous Surface Debris	2005	2005		2007	2007			N		U
PRBS	0003		None \ Rio Blanco Mud Pit	Waste/Pits	2005	2005		2007	2007			N		U
PRGB	0001		92-04-01 \ Septic Tank A	Tanks/Septic Tanks	2008	2008		2010	2010			N		Y
PRGB	0002		92-57-001 \ Gasbuggy Event Cavity	Underground Test Area/Underground Test Areas	2010	2010		2011	2011			N		Y
PRGB	0003		92-99-03 \ Flare Stack	Waste/Miscellaneous Surface Debris	2008	2008		2010	2010			N		U
PRGB	0004		92-99-02 \ Concrete Pads	Waste/Miscellaneous Surface Debris	2008	2008		2010	2010			N		U
PRGB	0005		92-99-01 \ Pipe Stanchion	Waste/Miscellaneous Surface Debris	2008	2008		2010	2010			N		U
PRGB	0006		92-98-01 \ Trash and Debris	Waste/Miscellaneous Surface Debris	2008	2008		2010	2010			N		U
PRGB	0007		92-44-01 \ Spill	Spills and Leaks/Surface Spills	2008	2008		2010	2010			N		U
PRGB	0008		92-30-06 \ Plugged Well GB-D	Waste/Wells (injection, monitoring, etc.)	2008	2008		2010	2010			N		U
PRGB	0009		92-30-05 \ Plugged Well GB-2RS	Waste/Wells (injection, monitoring, etc.)	2008	2008		2010	2010			N		U
PRGB	0010		92-30-04 \ Plugged Well GB-3	Waste/Wells (injection,	2008	2008		2010	2010			N		U

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				monitoring, etc.)										
PRGB	0011		92-30-03 \ Plugged Well GB-1	Waste/Wells (injection, monitoring, etc.)	2008	2008		2010	2010			N		U
PRGB	0012		92-30-02 \ Monitoring Well EPNG 10-36	Waste/Wells (injection, monitoring, etc.)	2008	2008		2010	2010			N		U
PRGB	0013		92-30-01 \ Gasbuggy SGZ/ Well GB-ER	Waste/Wells (injection, monitoring, etc.)	2008	2008		2010	2010			N		U
PRGB	0014		92-07-01 \ Decon Pit/ Concrete Pad	Liquid Surface Impoundments/Leach Fields	2008	2008		2010	2010			N		U
PRGB	0015		92-04-02 \ Septic Tank B	Tanks/Septic Tanks	2008	2010		2010	2010			N		U
PRRS	0001		RU-09-01 \ Rulison Mudpit	Liquid Surface Impoundments/Holding Ponds				1998	1998	6/13/1998		N	Pending	N
PRRS	0002		RU-57-001 \ Rulison Event Cavity	Underground Test Area/Underground Test Areas	2004	2004		2005	1998			N		Y
PRST	0001		57-09-01 \ Shoal Mudpit(s)	Liquid Surface Impoundments/Holding Ponds	1998	1998	6/11/1997	1998	1998	1/9/1998		N		U
PRST	0002		57-49-01 \ Shoal Emplacement Shaft	Underground Test Area/Underground Test Areas	2002	1998		2008	2008			N		U
PRST	0003		57-57-001 \ Shoal Event Cavity	Underground Test Area/Underground Test Areas	2002	1998		2008	2008			N		Y
PRST	3014		57-06-01 \ Muxkpile	/					1998	1/9/1998		N		
PRST	3015		57-98-01 \ Waste Pile/Oil Cans (6)	/					1998	1/9/1998		N		

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SATS	3034		93-09-01	/	2000	1999		2002	2002			N		
SATS	3035		93-35-01	/	2000	1999		2002	2002			N		
SATS	3036		93-51-01	/	2000	1999		2002	2002			N		
SATS	3037		93-51-02	/	2000	1999		2002	2002			N		
SATS	3038		93-98-01	/	2000	1999		2002	2002			N		
SATS	3039		93-57-001	/	2000	1999		2002	2002			N		